

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



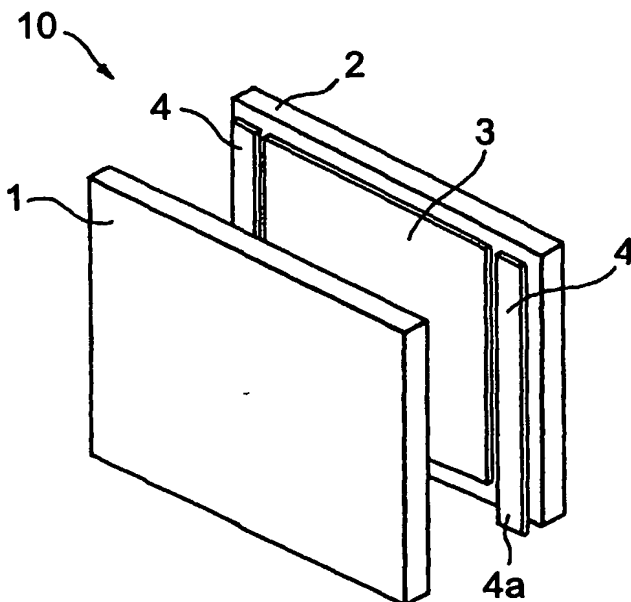
(43) International Publication Date
12 February 2004 (12.02.2004)

PCT

(10) International Publication Number
WO 2004/013885 A2

- (51) International Patent Classification⁷: **H01J 7/28**, 9/50, 17/28
- (21) International Application Number: PCT/US2003/019974
- (22) International Filing Date: 24 June 2003 (24.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2002-224995 1 August 2002 (01.08.2002) JP
- (71) Applicant: **3M INNOVATIVE PROPERTIES COMPANY** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).
- (71) Applicants and
(72) Inventors: **TAKEDA, Hikaru**, [JP/JP]; 3-3-4-504, Shimoyugi, Hachioji, Tokyo 192-0372 (JP). **MASUDA, Tatsuya** [JP/JP]; 8-10-401, Kanumadai, 1-chome, Sagami-hara, Kanagawa 227-0033 (JP).
- (74) Agents: **HARTS, Dean, M. et al.**; Post Office Box 33427, Saint Paul, MN 55133-3427 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: IMAGE DISPLAY APPARATUS



(57) **Abstract:** To provide an image display apparatus that is simple in construction, makes it easy to conduct repairing of components, disposal, recycling, etc, eliminates remains of adhesives on the component and can be produced at a low cost of production. A thermally conductive sheet is sandwiched between an image display panel and a supporting plate, and at least one adhesive tape having sufficient bonding strength for holding the display panel and capable of being peeled from the supporting plate when pulled at its end portion is bonded to a surface of the supporting plate that is not occupied by the thermally conductive sheet.